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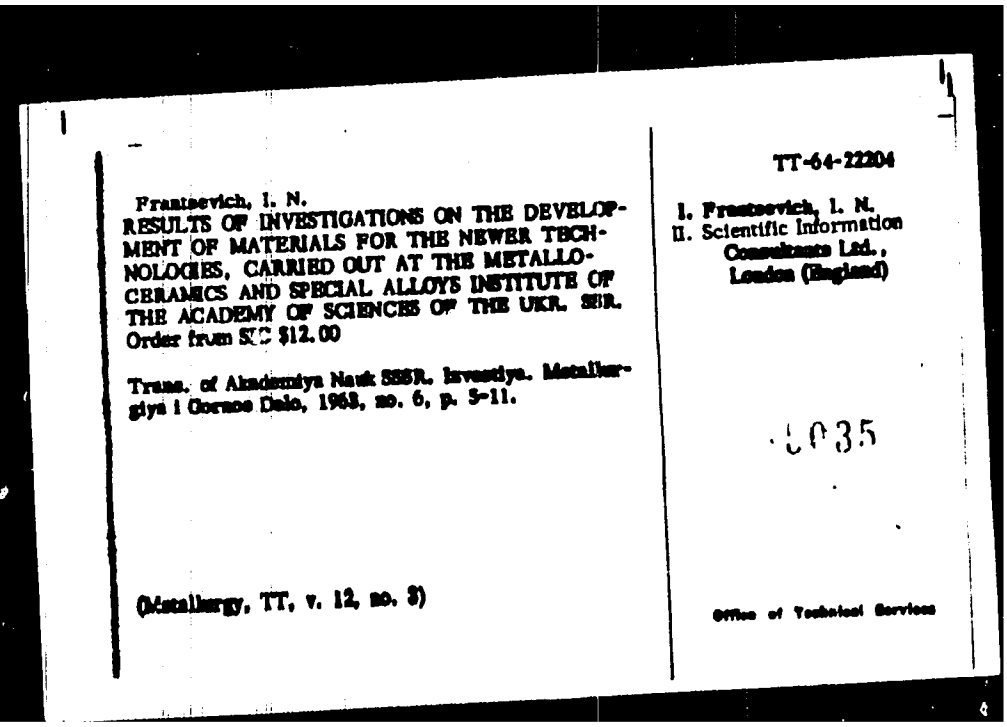

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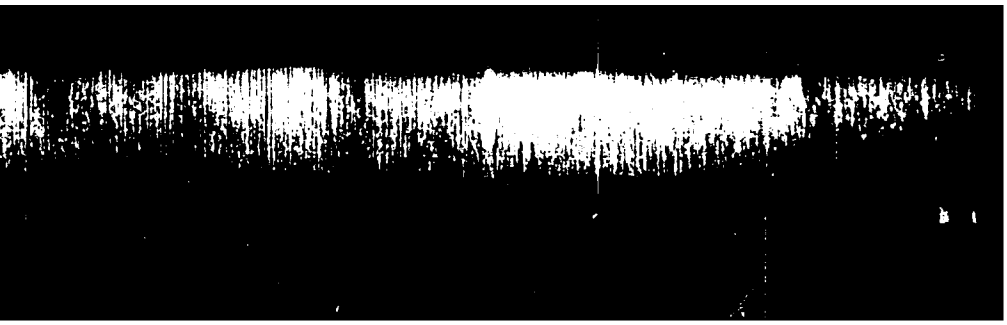

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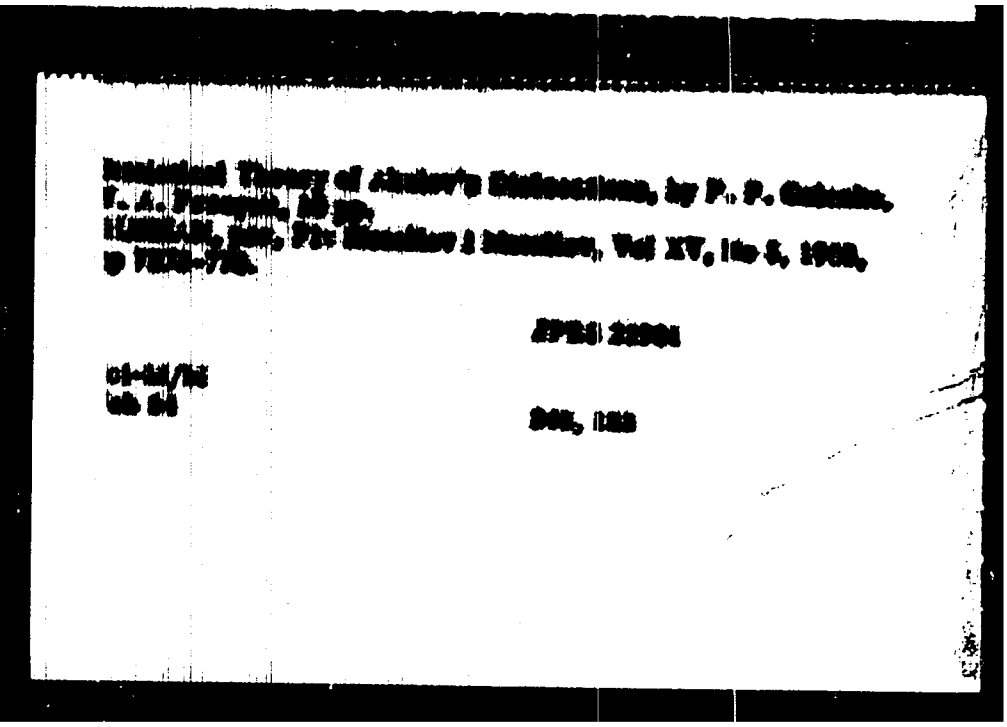

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Vol 3, No 1

110,970

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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New Weapons and the ABC Service, by Lt Col Frans, 10 pp.

GERMAN, per, Der Schweizer Soldat, Switzerland, 15 Nov 1955.

ACS, I, G-5950

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WEur - Switzerland
Military
Apr 56 CTS/dex

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Continuous Determination of the Blood Flow in the Human Skin With an Electric Heat Conduction Meter, by H. Hensel, Bender Freng, 13 pp.

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NIH 8-31-61

175.061

Bcl - Med

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Wound Infections Forming Gas and Edema: Prophylaxis and Therapy, by C. Frenz, 8 pp.

GERMAN. bk, Lehrbuch der Kriegschirurgie, 3d Edition 1942, pp 64-68.

STA Tr 57-1686

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78

Corrosion of Fe-Zn Systems by
F. Franz, L. Sandor.
CHEM, PHYS, Szmojiromatvii, Vol 13, [illegible] 11.
1963, pp 344-348.
[illegible]

[illegible]
[illegible]

[illegible]

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C.E. HEAT LOSSES OF HEATED BURIED PIPES
Trans. G. Franz et al.
5315 Warme und Stoffubertragung, Vol. 2, No. 2,
pp. 109-117 (1969)
(Spic Code: P1, 1 Jan. 1971)

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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Fundamentals of Prestressed Slabs, by G. Franz, 35 pp.

GERMAN, per, Beton - u Stahlbetonbau, Vol XLVIII, No 4, 1953, pp 78-83; No 5, 1953, pp 120-123; No 6, 1953, pp 140-144.

Assoc Tech Serv
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Aug 58

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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More Effective Management Through More Accurate Planning and Balancing of Supplies, by Gerhard Franz, Guenter Manz, Heinz Smietana, 19 pp.

GERMAN, per, Der Handel, Vol XI, No 6, 1961, pp 275-281.

JPRS 10296

EEUR - Germany
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173.4193

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Binding of Prefabricated Concrete Parts With Casting Resins, by G. Franz.
GERMAN, per. Zeits Vdi, Vol 105, No 8, 1963, pp 332-336.
GR/39/FVM-31/A/287

G FRANZ

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

NCH-200 939 Field 13M

Franz, G.; Niedenhoff, H.
THE REINFORCEMENT OF BRACKETS AND SHORT DEEP BEAMS. Tr. by C. V. Amerongen. 1965, 17p, 4refs. CACA-Lib-Trans-114.
Order from C/CA: L1 as Trans-114

Trans. of Beton Und Stahlbetonbau (West Germany) v58 n5 p112-20 1963.

1. Cement and Concrete Association, London (England)

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Franz, Gotthard.
LOAD-BEARING BEHAVIOR OF BRACKETS AND RESTRAINED BEAMS. [1963] [7p] 5refs
Order from SLA $1.10 63-20308

Trans. of mono. (lecture presented at) the CEB Congress, Wiesbaden, 1963.

DESCRIPTORS: *Beams (Structural), *Mounting brackets, Load distribution, Loading (Mechanics), *Reinforced concrete, Stresses, Mathematical analysis

Brackets, short cantilever beams under a concentrated load at the top edge, and restrained beams up to a = h (as, for example, foundations and pilings) should be reinforced using truss analogy. The required cross-section at the point of restraint or at the center of the beam $Fe_z = \frac{P \cdot a_z}{e}$ is continued to the support or under

(Engineering--Civil, TT, v. 10, no. 12) (over)

63-20308

1. Franz, G.

6 [illegible]

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Franz, H. and Scholze, H.
THE SOLUBILITY OF H_2O VAPOUR IN GLASS MELTS OF VARYING BASICITY. Feb64
Order from BGIRA BGIRA-590

Trans. of Glastechnische Berichte (West Germany)
1963, v. 36, no. 9, p. 347-356.

(Materials--Ceramics, TT, v. 12, no. 2)

TT-64-12947

I. Franz, H.
II. Scholze, H.
III. BGIRA-590
IV. British Glass Industry Research Association, Sheffield (England)

5276

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

On the Stability of the Guinier-Preston Zones in Aluminium-Copper Alloys, by H. Franz, E. Kramer.

GERMAN, per, Z Metallkunde, Vol XLVI, No 9, 1955, pp 639-646.

Fulmer Res Inst Ltd, Tr 85
OT/2470

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Sci - Min/met
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Investigation Concerning the Equilibrium in Reduction, Oxidation, and Carbonizing Phenomena in Iron, by R. Schenck, H. Franz, A. Laymann, 18 pp.

GERMAN, per, Z Anorg Allgem Chem, Vol CCVI, 1932, pp 129-151.

S.L.A. Tr 598/1955

Sci - Min/Met
Apr 1957 CTS/dex

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Studies on the Population of Adelges
(Dreyfusia) Piceae (Batz) Hemipt Adelgidae),
by H. Karaflat, J. Franz.

GERMAN, per, Zoologische Jahrbucher.
Vol LXXIV, 1956, pp 467-504.

CSIRO

Sci - Biol
Jul 62

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Microbes Against Insects - New Method of Biological Warfare Against Insect Pests, by J. Franz, 4 pp.

GERMAN, per, Umschau Wiss u Tech, No 7, 1 Apr 1955, pp 209-211.

SLA 2869

Sci - Biology
Mar 58

60, 6-57

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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Method of Converting Electrical Analogue Values Into Digital Values, by Jurgen Gottschald, Kurt Franz, 15 pp.
GERMAN, Patent No 1,140,721, 1963. 9220770
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May 64

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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(2636-D)

Socialist Production and Socialist Education, by Kurt [illegible], 13 pp.

[illegible], par, Paedagogik, No 10, Berlin, H 1958, pp 726-735.

JPRS 612-D

Effur - German
Soc - Education
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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Investigations of the Amalgams of the Metals Manganese, Iron, Cobalt, Nickel, and Copper, by L. Frank.

GERMAN, From the Institute of Inorganic Chemical Technology of Vienna Polytechnicum.

Dept of Int
US Bur of Mines
Eastern Exper Sta
College Park, Md.

Sci - Min/Met

May 59

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Method of Phosphoric Acid Production, by
H. Franz, P. Hagner.
CZECH, Patent 124,369.
NTC-69-16357-07A

Sci-Chem
Feb 70 401,826

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

The Electrolytic Preparation of MnO_2, by Vaclav Srb, Milan Franz, 22 pp.

CZECH, per, Sbornik Vysoke Skoly Chemicko-technologicke, pp 51-69.

UEASIA SC-45/60

Chemistry

Sci -

Mar 60

109, 114

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

conduction electron is assumed to be quasi free (energy varying parabolically with wave number). The energy needed for impact ionization is somewhat larger than the optical band gap. When this energy is surpassed the ionization rate increases with the second or third power of the surplus energy (power depending on band structure). (Author)

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62-14446

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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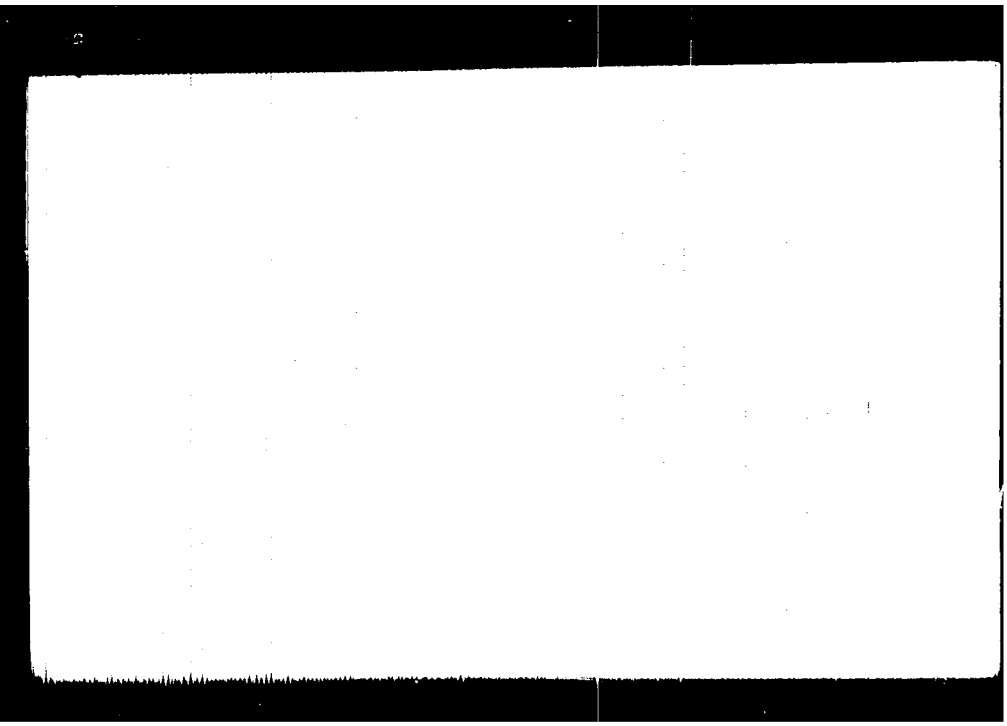

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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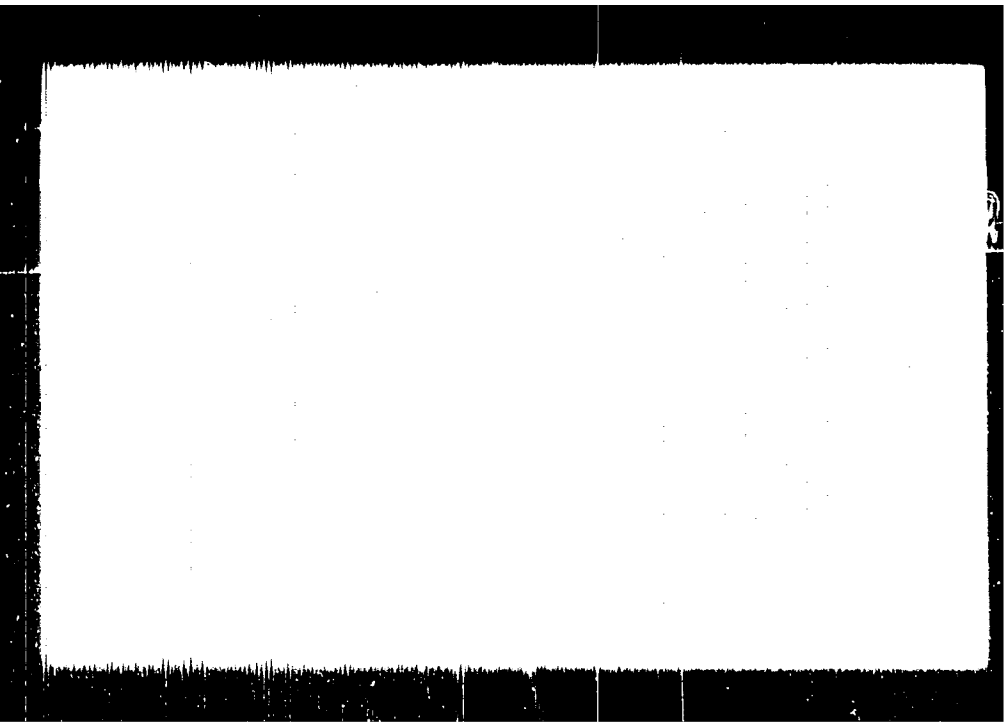

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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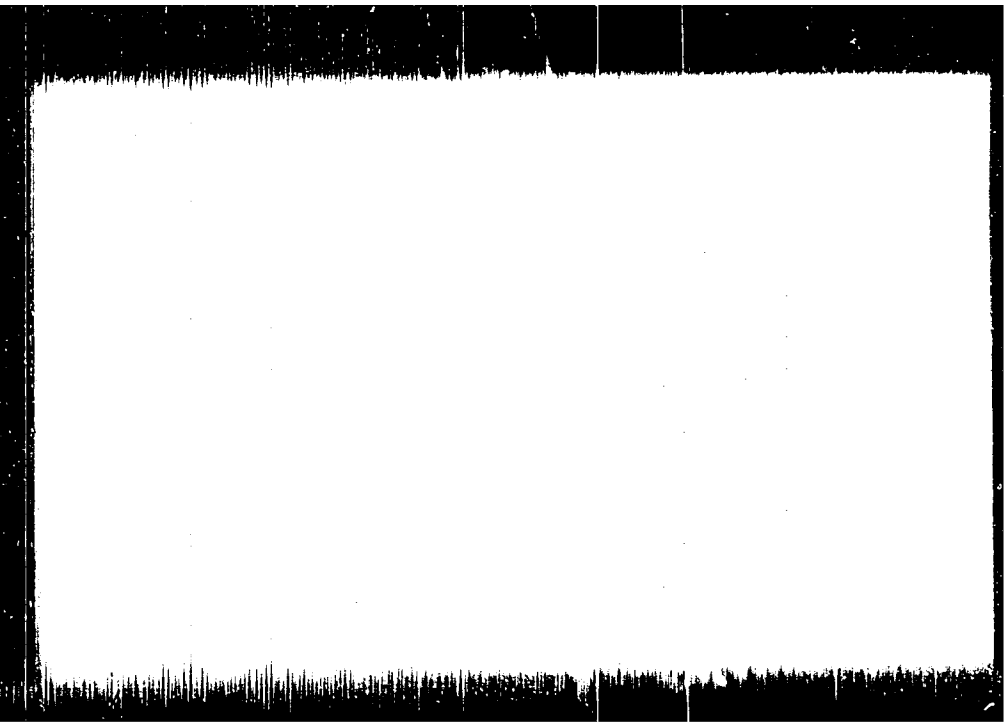

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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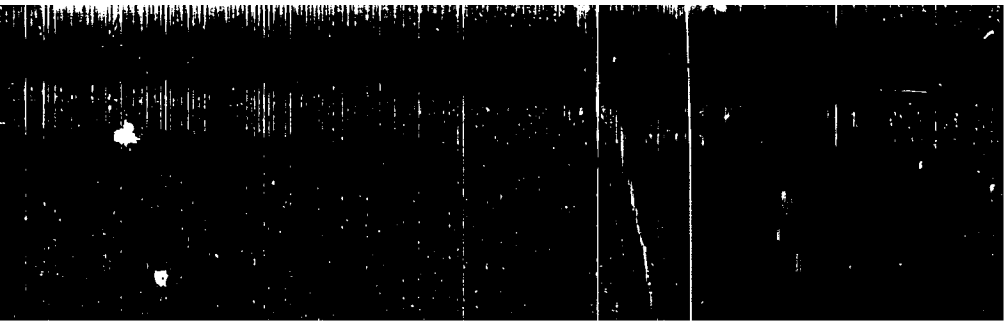

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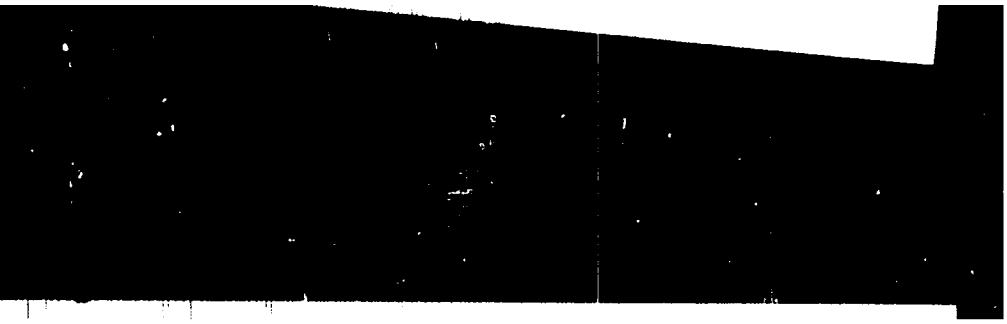

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Internal Field Emission From an Interference or Disturbance Center, Section 3l, by Walter Franz. 6 pp.

GERMAN, per, Handbuch der Physik, Dielektrika, Vol XVII, Chap II, 1956, pp 155-255.

ABC SCL-T-334

Sci - Phys
Aug 61

1652385

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Franz, Walter.
THE INFLUENCE OF AN ELECTRIC FIELD ON AN OPTICAL ABSORPTION EDGE. [1961] 13p. 3 refs.
Order from SLA $1.60 62-1353

Trans. of Z[eitschrift fur] Naturforsch[ung] (West Germany) 1958, v. 13a [no. 6] p. 484-[489].

DESCRIPTORS: *Electric fields, *Optics, *Absorption, Absorption spectra, *Electrons, Penetration, Frequency modulation, Modulation, Frequency, *Crystals.

In an electric field on the order of magnitude of 10^5 to 10^6 v/cm, one may expect a change in the absorption edge which consists of a broadening of the base of the edge at the expense of higher frequencies. One can understand this effect, either as the penetration of electrons into the forbidden band (the step preceding the internal field emission), or as a frequency modulation (Physica, T.F, v. 8, no. 3) (over)

62-1353
I. Franz, W.

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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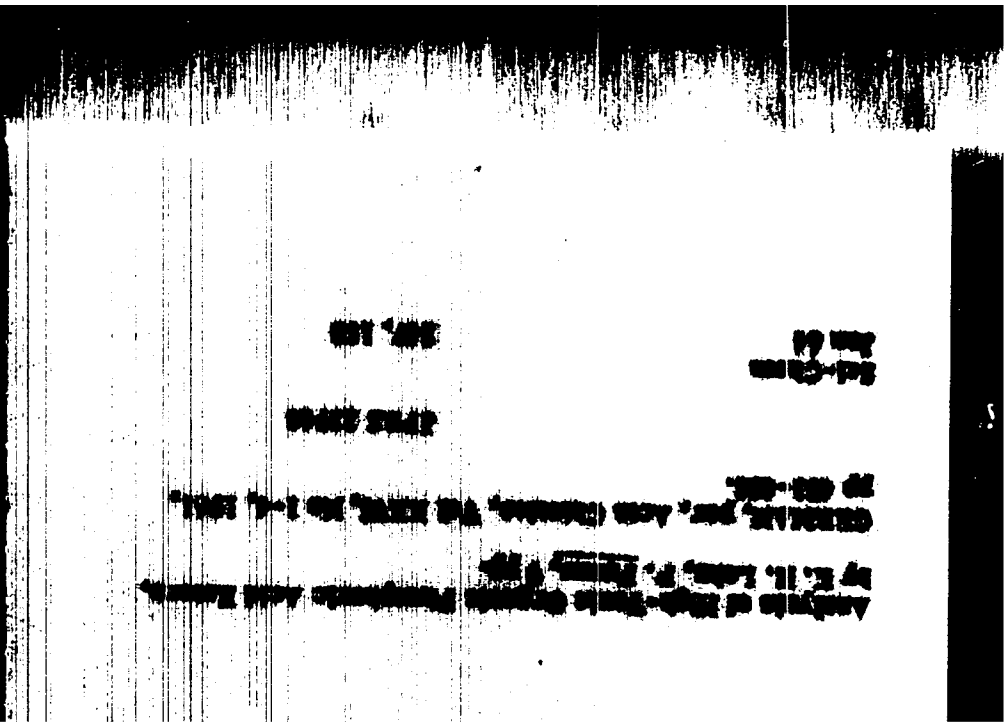

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and the question of the Migration in Search of Food,
by Victor [redacted], 9 pp.

SWEDISH, rpt, XXX 1910b, pp 253-259.

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Recognition and Analysis of Chemical Warfare
Agents, by Karlheinz Lohs, Peter Fiquz, 66 pp.
GERMAN, bk., Extraction and Microtechniques Chemistry
Kampfstoffe, 1964.
ACSI F-5785
ID-2214009964

Sci - Chem
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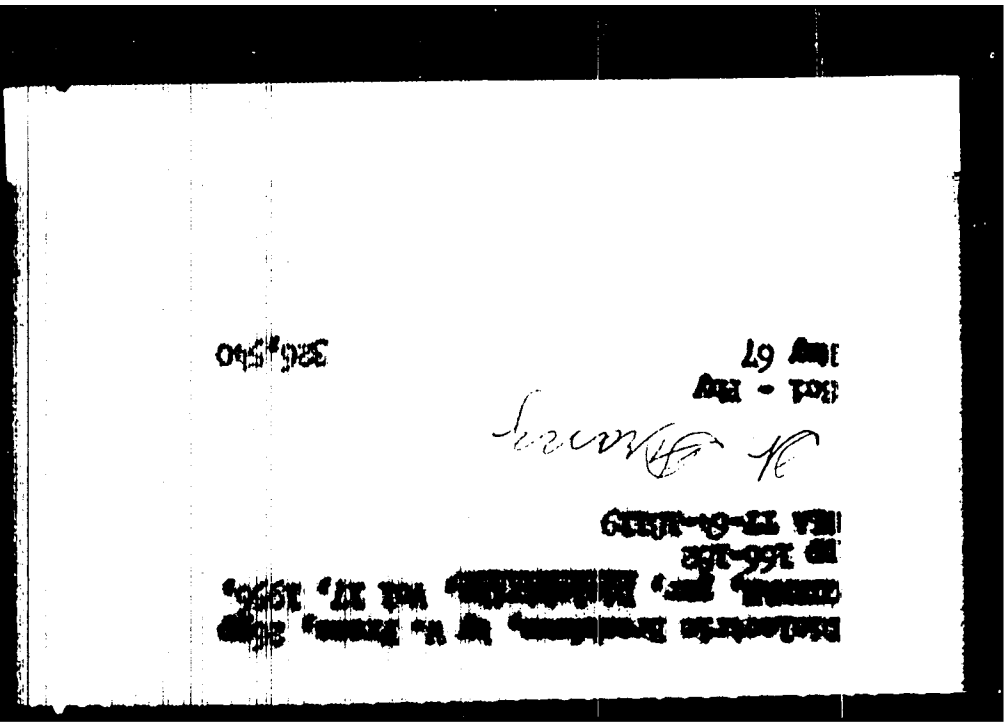

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Theory of Diffraction by a Sphere on Consideration of the Creeping Waves[1], by K. Deppermann, W. Franz, 17 pp.

GERMAN, per, Annalen der Physik, Vol XIV, 1954.

29 469

CIA/RDD/XX-31
IAC INTERNAL USE ONLY

Scientific - Physics

Dec 55 CTS/DEX

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Theory of Diffraction by a Cylinder as Affected by the Surface Wave, by W. Franz, K. Deppermann, 17 pp.

GERMAN, per, Annalen der Physik, Vol X, 1952, pp 361.

CIA/FDD/XX-30
IAC INTERNAL USE ONLY

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Scientific - Physics Dec 55 CTS/DEX

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Frantz, Walter.
ZENER'S FIELD EFFECT AND IMPACT IONIZATION.
[1962] 20p. 15 refs.
Order from SLA $1.60 62-14446

Trans. of mono. Halbleiter und Phosphore, n.p., 1938, p. 317-328.

DESCRIPTORS: *Electrons, *Field emission, *Impact shock, *Ionization, Excitation, Probability, Crystals.

Zener's internal field emission formula is not capable of quantitative application because of the neglections in its derivation. Part A of this report derives a quantitative formula for the three-dimensional crystal by evaluating Houston's theory by complex methods. Coulomb interaction between the conduction electron created and the valence hole left is taken into account. Part B of the report gives the theory of impact ionization of the valence band by a conduction electron. The (Physics--Electronics, TT, v. 8, no. 9) (over)

62-14446
1. Title: Zener effect
I. Frantz, W.

Office of Technical Services

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

The Electrolytic Preparation of MnO_2, by Vinckier Bzb, Milan Ftrsiz, 33 pp.

CZECH, per, Sbornik Vysoke Skoly Chemicko-technologicke, pp 51-69.

USAEA SC-45/60

Chemistry

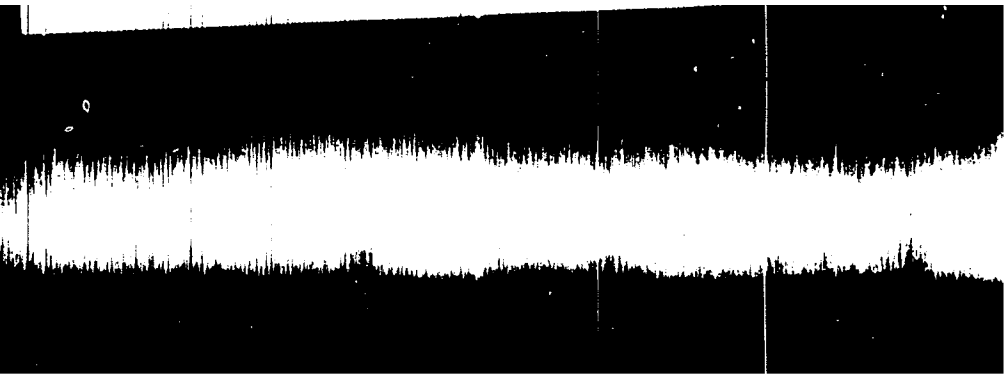
Oct -

Mar 60

109 114

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4



APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

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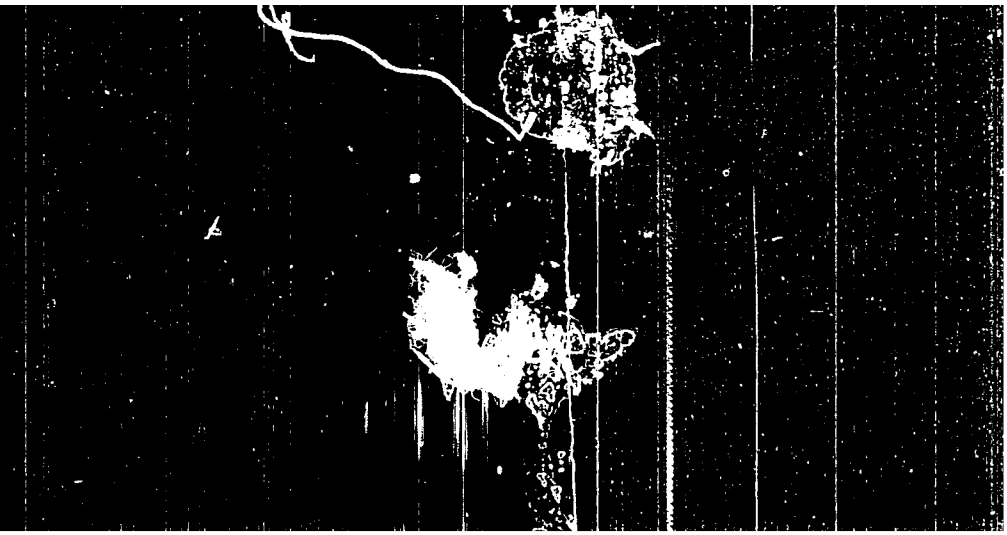

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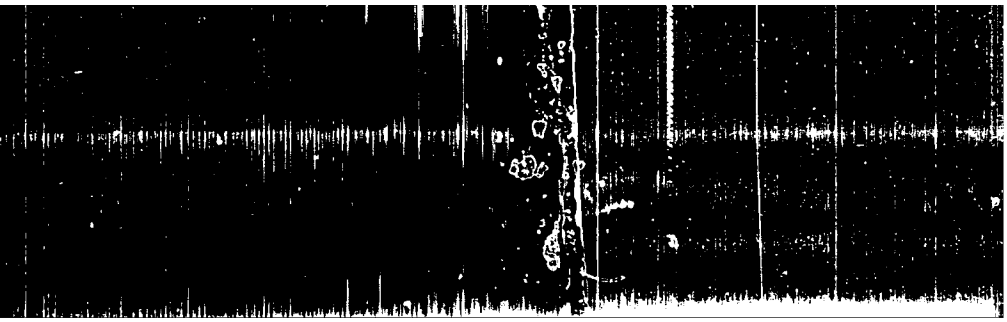

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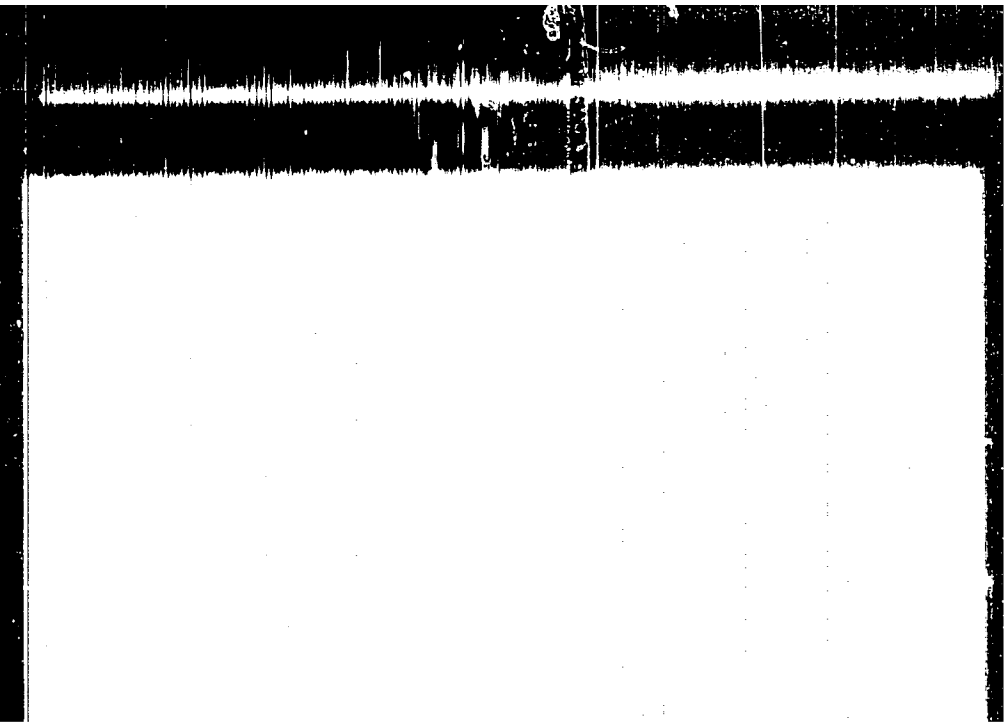

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Franz, Walter.
THE INFLUENCE OF AN ELECTRIC FIELD ON AN OPTICAL ABSORPTION EDGE. [1961] 13p. 3 refs.
Order from SLA $1.60 62-14353

Trans. of Z[eitschrift für] Naturforsch[ung] (West Germany) 1958, v. 13a [no. 6] p. 484-[489].

DESCRIPTORS: *Electric fields, *Optics, *Absorption, Absorption spectra, *Electrons, Penetration, Frequency modulation, Modulation, Frequency, *Crystals.

In an electric field on the order of magnitude of 10^5 to 10^6 v/cm, one may expect a change in the absorption edge which consists of a broadening of the base of the edge at the expense of higher frequencies. One can understand this effect, either as the penetration of electrons into the forbidden band (the step preceding the internal field emission), or as a frequency modulation
(Physics, TT, v. 8, no. 3) (over)

62-14353

I. Franz, W.

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Office of Technical Services

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APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4

Internal Field Emission From an Interference or Disturbance Center, Section 31, by Walter Franz, 6 pp.

GERMAN, per, Handbuch der Physik, Dielektrika, Vol XVII, Chap II, 1956, pp 155-255.

AEC SCL-T-334

Sci - Phys
Aug 61

165 289

APPROVED FOR RELEASE: Thursday, August 15, 2002 CIA-RDP91-00772R000301900010-4